

Listing of Claims

1. – 7. (Canceled)
8. (Previously presented) A method for treating water, sediment, or soil containing pollutants by the step of contacting the pollutant containing water, sediment, fractured rock, or soil with a multi-functional sequestration agent comprising bauxite in its relatively natural form.
9. (Previously presented) The method according to claim 8, wherein said multi-functional sequestration agent is formed into a permeable vertical barrier.
10. (Previously presented) The method according to claim 8, wherein said multi-functional sequestration agent is formed into a permeable horizontal barrier or cap.
11. (Previously presented) The method according to claim 8, wherein said multi-functional sequestration agent is mixed with the environmental media to be cleaned.
12. (Previously presented) A method for removing or inactivating microorganisms in an emission or in the environment comprising contacting the microorganism with a mineral selected from bauxite, copper ores, and mixtures thereof.
13. (Previously presented) The method according to claims 8 or 12 wherein said bauxite is crushed.
14. (Previously presented) The method according to claims 8 or 12 wherein said bauxite is granular.
15. (Previously presented) The method according to claims 8 or 12 wherein said bauxite is a powder.

16. (Previously presented) The method according to claims 8 or 12 wherein said bauxite is installed as a subsurface mineral ore barrier.
17. (Previously presented) The method according to claims 8 or 12 wherein said bauxite is in a permeable barrier.
18. (Previously presented) The method according to claim 17, wherein said permeable barrier is installed in the path of groundwater flow.
19. (Previously presented) The method according to claims 8 or 12 wherein said water is groundwater.
20. (Previously presented) The method according to claims 8 or 12 wherein said water is surface water.
21. (Previously presented) The method according to claims 8 or 12 wherein said contacting is by mixing said bauxite with said water, sediment, fractured rock, or soil.
22. (Previously presented) The method according to claim 8, wherein the pollutant is a heavy metal.
23. (Previously presented) A sequester for treating water, sediment, fractured rock, or soil containing heavy metals comprising: bauxite in its relatively natural form mixed with said water, sediment, or soil.
24. (Previously presented) The sequester according to claim 23, wherein said bauxite comprises granulated or powdered bauxite.

25. (Previously presented) A permeable barrier for preventing migration of pollutants comprising:
a multi-functional sequestration agent comprising bauxite in its relatively natural form.
26. (Previously presented) The permeable barrier according to claim 25, wherein said bauxite comprises granulated or powdered bauxite.